## Amendments to the Claims

Claims 99-107 have been added. The Claim Listing below will replace all prior versions of the claims in the application:

## Claim Listing

1. (Previously presented) A method for treating a human having an inflammatory bowel disease, comprising administering to said human an effective amount of a humanized immunoglobulin or antigen-binding fragment thereof having binding specificity for human  $\alpha 4\beta 7$  integrin, said humanized immunoglobulin or antigen-binding fragment comprising an antigen binding region of nonhuman origin and at least a portion of an antibody of human origin, wherein said humanized immunoglobulin or antigen-binding fragment is administered in a single dose or in an initial dose followed by one or more subsequent doses wherein no more than about 8 mg humanized immunoglobulin or antigen-binding fragment per kg body weight are administered during a period of about one month, wherein said humanized immunoglobulin or antigen-binding fragment has binding specificity for the  $\alpha 4\beta 7$  complex, wherein said antigen-binding region comprises three complementarity determining regions (CDR1, CDR2 and CDR3) of a light chain variable region and three complementarity determining regions (CDR1, CDR2 and CDR3) of a heavy chain variable region of the amino acid sequence set forth below:

|  | light chain: | CDR1 | SEQ ID NO: 9   |
|--|--------------|------|----------------|
|  | heavy chain: | CDR2 | SEQ ID NO: 10  |
|  |              | CDR3 | SEQ ID NO: 11  |
|  |              | CDR1 | SEQ ID NO: 12  |
|  |              | CDR2 | SEQ ID NO: 13  |
|  |              | CDR3 | SEQ ID NO: 14. |

2-10. (Canceled)

 (Previously Presented) The method of Claim 1 wherein said humanized immunoglobulin or antigen-binding fragment thereof comprises the heavy chain variable region of SEQ ID NO:6.

- (Previously Presented) The method of Claim 1 wherein said humanized immunoglobulin or antigen-binding fragment thereof comprises the light chain variable region of SEQ ID NO:8.
- 13. (Previously Presented) The method of Claim 1 wherein each of said doses independently comprise about 0.1 to about 8 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

14-17. (Canceled)

18. (Original) The method of Claim 1 wherein the interval between doses is at least about 14 days.

19-21. (Canceled)

22. (Previously Presented) A method for treating a human having an inflammatory bowel disease, comprising administering to said human an effective amount of a humanized immunoglobulin or antigen-binding fragment thereof having binding specificity for human α4β7 integrin, said humanized immunoglobulin or antigen-binding fragment comprising an antigen binding region of nonhuman origin and at least a portion of an antibody of human origin, wherein said humanized immunoglobulin or antigen-binding fragment is administered in a single dose or in an initial dose followed by one or more subsequent doses wherein each of said doses independently comprise an amount of humanized immunoglobulin or antigen-binding fragment thereof which is sufficient to achieve a) about 50% or greater saturation of α4β7 integrin binding sites on circulating lymphocytes and/or b) about 50% or greater inhibition of α4β7 integrin expression on the cell surface of circulating lymphocytes, and wherein said saturation and/or inhibition is maintained for a period of at least about 10 days following administration of said dose; wherein said humanized immunoglobulin or antigen-binding fragment has binding specificity for the α4β7 complex, and wherein said antigen binding region comprises three complementarity determining regions (CDR1, CDR2 and CDR3) of a light chain variable region and three complementarity determining regions (CDR1, CDR2 and CDR3) of a heavy chain variable region of the amino acid sequence set forth below:

light chain: CDR1 SEO ID NO: 9

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| heavy chain: | CDR2 | SEQ ID NO: 10  |
|--------------|------|----------------|
|              | CDR3 | SEQ ID NO: 11  |
|              | CDR1 | SEQ ID NO: 12  |
|              | CDR2 | SEQ ID NO: 13  |
|              | CDR3 | SEQ ID NO: 14. |

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23-25. (Canceled)

26. (Previously Presented) The method of Claim 22 wherein each of said doses independently comprise an amount of humanized immunoglobulin or antigen-binding fragment which is sufficient to achieve and maintain said saturation and/or inhibition for a period of at least about 14 days following administration of said dose.

27-30. (Canceled)

31. (Previously Presented) The method of claim 22 wherein each of said doses independently comprise about 0.1 to about 8 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

32-35. (Canceled)

 (Original) The method of Claim 22 wherein the interval between doses is at least about 14 days.

37-39. (Canceled)

40. (Previously Presented) A method for treating a human having an inflammatory bowel disease, comprising administering to said human an effective amount of a humanized immunoglobulin or antigen-binding fragment thereof having binding specificity for human α4β7 integrin, said humanized immunoglobulin or antigen-binding fragment comprising an antigen binding region of nonhuman origin and at least a portion of an antibody of human origin, wherein said humanized immunoglobulin or antigen-binding fragment is administered in a single

dose or in an initial dose followed by one or more subsequent doses, wherein each of said doses comprises an amount of humanized immunoglobulin or antigen-biding fragment which is sufficient to achieve and maintain a serum concentration of humanized immunoglobulin or antigen-binding fragment of at least about 1  $\mu$ g/mL for a period of at least about 10 days following administration of said dose; wherein said humanized immunoglobulin or antigen-binding fragment has binding specificity for the  $\alpha$ 4 $\beta$ 7 complex, and wherein said antigen binding region comprises three complementarity determining regions (CDR1, CDR2 and CDR3) of a light chain variable region and three complementarity determining regions (CDR1, CDR2 and CDR3) of a heavy chain variable region of the amino acid sequence set forth below:

SEO ID NO: 9

| ngni chain.  | CDKI | SEQ ID NO. 9   |
|--------------|------|----------------|
|              | CDR2 | SEQ ID NO: 10  |
|              | CDR3 | SEQ ID NO: 11  |
| heavy chain: | CDR1 | SEQ ID NO: 12  |
|              | CDR2 | SEQ ID NO: 13  |
|              | CDR3 | SEO ID NO: 14. |

CDRI

light chain:

41. (Previously Presented) The method of Claim 40 wherein each of said doses independently comprise an amount of humanized immunoglobulin which is sufficient to achieve and maintain said serum concentration for a period of at least about 14 days following administration of said dose.

42-45. (Canceled)

46. (Previously Presented) The method of Claim 40 wherein each of said doses independently comprise about 0.1 to about 8 mg humanized immunoglobulin per kg body weight.

47-50. (Canceled)

 (Original) The method of Claim 40 wherein the interval between doses is at least about 14 days.

- 52-54. (Canceled)
- 55. (Original) The method of Claim 1 further comprising administering an effective amount of one or more additional therapeutic agents.
- 56. (Original) The method of Claim 55 wherein said agents are selected from the group consisting of steroids, immunosuppressive agents, non-steroidal anti-inflammatory agents and immunomodulators.
- 57. (Original) The method of Claim 55 wherein said agents are selected from the group consisting of azathioprene, 6-mercaptopurine, sulfasalazine, 5-amino salicylic acid, prednisone and prednisolone.
- (Canceled)
- 59. (Canceled)
- 60. (Currently Amended) The method of Claim [[59]] \(\frac{1}{2}\) wherein said inflammatory bowel disease is ulcerative colitis.
- 61. (Withdrawn) The method of Claim 1 wherein said inflammatory bowel disease is Crohn's
- 62-65. (Canceled)
- 66. (Withdrawn) A method for inhibiting relapse and/or recurrence of quiescent inflammatory bowel disease in a human, comprising administering to said human an effective amount of a humanized immunoglobulin or antigen-binding fragment thereof having binding specificity for  $\alpha 4\beta 7$  integrin, said humanized immunoglobulin or antigen-binding fragment comprising an antigen binding region of nonhuman origin and at least a portion of an immunoglobulin of human origin, wherein said humanized immunoglobulin or antigen-binding fragment is administered in doses and the minimum interval between doses is a period of at least about 7 days, and wherein no more than about 8 mg humanized immunoglobulin or antigen-binding fragment per kg body weight are administered during a period of about 30 days; wherein

said humanized immunoglobulin or antigen-binding fragment has binding specificity for the  $\alpha$ 487 complex.

- (Withdrawn) The method of Claim 66 wherein quiescence has been induced by medical or surgical therapy.
- 68. (Withdrawn) The method of Claim 66 wherein said inflammatory bowel disease is ulcerative colitis.
- (Withdrawn) The method of Claim 66 wherein said inflammatory bowel disease is Crohn's disease.
- 70. (Previously Presented) The method of Claim 1 wherein each of said doses independently comprise about 6 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.
- 71. (Previously Presented) The method of Claim 22 wherein each of said doses independently comprise about 6 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.
- (Previously Presented) The method of Claim 40 wherein each of said doses independently comprise about 6 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.
- 73. (Previously Presented) The method of Claim 1 wherein the interval between doses is at least about 50 days.
- 74. (Previously Presented) The method of Claim 22 wherein the interval between doses is at least about 50 days.
- 75. (Previously Presented) The method of Claim 40 wherein the interval between doses is at least about 50 days.

- 76. (Previously Presented) The method of Claim 22 further comprising administering an effective amount of one or more additional therapeutic agents.
- 77. (Canceled)
- 78. (Previously Presented) The method of Claim 40 further comprising administering an effective amount of one or more additional therapeutic agents.
- (Canceled)
- 80. (Previously Presented) A method for treating a human having an inflammatory bowel disease, comprising administering to said human an effective amount of a humanized immunoglobulin or antigen-binding fragment thereof having binding specificity for human  $\alpha 4\beta 7$  integrin, said humanized immunoglobulin or antigen-binding fragment comprising an antigen binding region of nonhuman origin and at least a portion of an antibody of human origin, wherein said humanized immunoglobulin or antigen-binding fragment is administered in a single dose or in an initial dose followed by one or more subsequent doses, wherein no more than about 8 mg immunoglobulin or fragment per kg body weight are administered during a period of about one month, wherein said humanized immunoglobulin or antigen-binding fragment has binding specificity for the  $\alpha 4\beta 7$  complex, and wherein said humanized immunoglobulin or antigen-binding fragment thereof comprises the heavy chain variable region of SEQ ID NO:6 and the light chain variable region of SEQ ID NO:8.
- 81. (Previously Presented) The method of Claim 80, wherein each of said doses independently comprise about 0.1 to about 8 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.
- 82. (Previously Presented) The method of Claim 80, wherein each of said doses independently comprise about 0.1 to about 5 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.
- (Previously presented) The method of Claim 80, wherein the interval between doses is at least about 30 days.

- 84. (Previously Presented) The method of Claim 80, wherein each of said doses independently comprise about 2 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.
- 85. (Previously Presented) The method of Claim 1 wherein each of said doses independently comprise about 2 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.
- 86. (Previously Presented) The method of Claim 22, wherein each of said doses independently comprise about 2 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.
- 87. (Previously Presented) The method of Claim 40, wherein each of said doses independently comprise about 2 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

## 88-89. (Canceled)

- 90. (Withdrawn) The method of Claim 66, wherein each of said doses independently comprise about 6 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.
- (Withdrawn) The method of Claim 66, wherein each of said doses independently comprise about 2 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.
- (Previously Presented) The method of Claim 80, wherein each of said doses independently comprise about 6 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.
- (Previously Presented) The method of Claim 80, wherein each of said doses independently comprise about 4 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

- 94. (Previously Presented) The method of Claim 1 wherein each of said doses independently comprise about 4 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.
- (Previously Presented) The method of Claim 22, wherein each of said doses independently comprise about 4 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.
- (Previously Presented) The method of Claim 40, wherein each of said doses independently comprise about 4 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.
- 97. (Canceled)
- (Withdrawn) The method of Claim 66, wherein each of said doses independently comprise about 4 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.
- (New) The method of Claim 80 wherein the interval between doses is at least about 14 days.
- 100. (New) The method of Claim 1, wherein the interval between doses is at least about 28 days.
- 101. (New) The method of Claim 22, wherein the interval between doses is at least about 28 days.
- 102. (New) The method of Claim 40, wherein the interval between doses is at least about 28 days.
- 103. (New) The method of Claim 80 wherein the interval between doses is at least about 28 days.

- 104. (New) The method of Claim 1, wherein the interval between doses is at least about 40 days.
- 105. (New) The method of Claim 22, wherein the interval between doses is at least about 40 days.
- 106. (New) The method of Claim 40, wherein the interval between doses is at least about 40 days.
- 107. (New) The method of Claim 80 wherein the interval between doses is at least about 40 days.